

Title (en)
Catheter hub

Title (de)
Katheternabe

Title (fr)
Embout de cathéter

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Application
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Abstract (en)
[origin: EP0747089A2] An improved catheter hub to nose engagement for securely engaging the hub and nose together as one integral unit during threading of the catheter. The catheter comprises a catheter hub and nose, and an elastic tube is provided between the catheter hub and nose. The nose is provided with an internal undercut in which a nose extender is secured, and the nose extender is securely engaged within the elastic tube. The hub and nose are securely engaged together by an interference fit between the hub and nose and also by an interference fit between the elastic tube and the nose extender. In a second embodiment, the nose has a longitudinal slot to provide a split nose tip, and the split nose tip has an enlarged burred end to securely engage the hub and nose together. This second embodiment is preferably utilized in combination with an elastic tube as described, or can be used also without such an elastic tube. In another embodiment, the nose has a longitudinally tapered nose tip, and the tapered nose tip has an enlarged burred end to securely engage the hub and nose together. In a further embodiment, the nose has an internal undercut in which an elastic plug is secured which is positioned between the catheter hub and nose. The elastic plug has a through hole having a diameter slightly smaller than the diameter of the catheter needle, such that when the needle is inserted into the through hole, the outer diameter of the elastic plug is expanded, such that the hub and nose are securely engaged together by an interference fit between the hub and the elastic plug.

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• [A] US 4187848 A 19800212 - TAYLOR GLENN N [US]
• [AD] US 4944725 A 19900731 - MCDONALD MICHAEL [US]
• [A] US 5312371 A 19940517 - DOMBROWSKI MITCHELL P [US], et al

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